

Supplementary Information

Table S1. Concentration range and linear regression for zinc and tungsten calibration curves with BONE, HC and HA calibration standards.

Analyte	Spot Size	Matrix	Concentration range ($\mu\text{g g}^{-1}$)	Calibration Curve ($y = mx+b$)	
				<i>m</i>	<i>b</i>
⁶⁶ Zn	4 μm	BONE:	187.33 - 309.61	7.47E-04	-7.27E-02
		HC:	35.29-252.14	2.54E-04	6.96E-04
		HA:	33.83-243.67	1.64E-04	-9.37E-04
	15 μm	BONE:	187.33 - 309.61	5.28E-04	-4.51E-02
		HC:	35.29-252.14	1.98E-04	-1.08E-03
		HA:	33.83-243.67	1.46E-04	-6.11E-05
	50 μm	BONE:	187.33 - 309.61	7.50E-04	-8.83E-02
		HC:	35.29-252.14	1.89E-04	-1.29E-03
		HA:	33.83-243.67	1.27E-04	-5.60E-04
¹⁸² W	4 μm	BONE:	0.75 - 64.21	1.62E-03	1.51E-03
		HC:	0.62-67.89	9.92E-04	2.62E-04
		HA:	2.89-68.21	7.95E-04	-6.17E-04
	15 μm	BONE:	0.75 - 64.21	1.10E-03	1.64E-03
		HC:	0.62-67.89	7.34E-04	1.63E-04
		HA:	2.89-68.21	6.97E-04	-6.24E-04
	50 μm	BONE:	0.75 - 64.21	9.70E-04	4.88E-03
		HC:	0.62-67.89	7.78E-04	-1.76E-04
		HA:	2.89-68.21	6.23E-04	-8.39E-04